

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A display device comprising:
a display with a plurality of light emitting elements, and data lines for providing pulse width modulation signals to the light emitting elements; and
generating means coupled to the data lines for generating, during time intervals of a frame period, at least a first non-zero emission level of a light emitting element during a first one of the time intervals and a second non-zero emission level during a second one of the time intervals, wherein the generating means generates for reordering the time intervals within the frame period including the first and second time intervals in an order that reduces dead times between the time intervals, and for applying the first and second non-zero emission levels to a light emitting element in a time sequence determined by the reordered time intervals.
2. (Previously presented) The display device according to claim 1, wherein the display further comprises selection lines, each selection line being coupled to a part of the plurality of light emitting elements, the generating means being further coupled to the selection lines for applying a multiline addressing scheme to the data lines and the selection lines.

3. (Previously presented) The display device according to claim 1, wherein the generating means are adapted to generate time intervals of a substantially binary weighted duration wherein each of the time intervals is assigned the substantially binary weighted duration regardless of emission levels during each of the time intervals.

4. (Previously presented) The display device according to claim 1, wherein the generating means are adapted to generate time intervals of a substantially binary weighted duration regardless of an ordering of the time intervals.

5. (Previously presented) The display device according to claim 1, wherein the generating means are adapted to generate the first and second emission level via the data lines in an intermixed mode.

6. (Previously presented) The display device according to claim 3, wherein the generating means comprise a control unit, and a data driver comprising a first current source for generating the first emission level and a second current source for generating the second emission level.

7. (Previously presented) The display device according to claim 5, wherein the generating means are adapted to pre-charge the data lines before coupling one of the current sources to one of the data lines.

8. (Previously presented) The display device according to claim 1, further comprising a power line for coupling a first supply voltage to the plurality of light emitting elements for generating the first emission level and a second supply voltage for generating the second emission level, respectively.

9. (Previously presented) The display device according to claim 1, wherein the generating means are adapted to generate the second emission level at a level substantially equal to the first emission level multiplied by a number of selectable combinations of time intervals.

10. (Previously presented) Electric device comprising a display device according to claim 1.

11. (Currently amended) A method for driving a display device comprising a display with a plurality of light emitting elements and data lines coupled to the light emitting elements, the method comprising the steps of:

providing pulse width modulation signals to the data lines; and

generating in synchronization with the pulse width modulation signals, during time intervals of a frame period, at least a first non-zero emission level of a light emitting element during a first one of the time intervals and a second non-zero emission level during a second one of the time intervals, wherein

reordering the time intervals within the frame period including the first and second time intervals ~~are generated~~ in an order that reduces dead times between the time intervals; and

applying the first and second non-zero emission levels to a light emitting element in a time sequence determined by the reordered time intervals.

12. (Currently amended) A display device comprising:

a display with a plurality of light emitting elements, and data lines for providing pulse width modulation signals to the light emitting elements; and

a controller configured to generate, during time intervals of a frame period, at least a first non-zero emission level ~~of a light emitting element~~ during a first one of the time intervals and a second non-zero emission level during a second one of the time intervals, wherein the controller is configured to ~~generate~~ reorder the time intervals within the frame period including the first and second time intervals in an order that reduces dead times between the time intervals and is configured to apply the first and second non-zero emission levels to a light emitting element in a time sequence determined by the reordered time intervals.

13. (Previously presented) The display device according to claim 12, wherein the controller is configured to generate time intervals of a substantially binary weighted duration, wherein each of the time intervals is assigned the substantially binary weighted duration regardless of emission levels during each of the time intervals.

14. (Previously presented) The display device according to claim 12, wherein the controller is configured to generate time intervals of a substantially binary weighted duration regardless of an ordering of the time intervals.